



MODEL	DESCRIPTION
TU 433A-6V-1	POWER VOICE SPEAKER (6 VOLT)
TU 433A-12V-1	POWER VOICE SPEAKER (12 VOLT)

NOTES:

1. AMPLIFIER CHASSIS IS INSULATED FROM HOUSING.
2. *mm* INDICATES CONNECTION TO AMPLIFIER CHASSIS.
3. A. 6 VDC APPLICATIONS (TU 433A-6V):
YELLOW SPEAKER LEAD IS CONNECTED TO THE TIE-POINT OF THE GREEN LEAD OF OUTPUT TRANSFORMER T2.
B. 12 VDC APPLICATIONS (TU 433A-12V):
YELLOW SPEAKER LEAD IS CONNECTED TO THE TIE-POINT OF THE YELLOW LEAD OF OUTPUT TRANSFORMER T2.
4. REGARDLESS OF VEHICLE GROUND POLARITY:
A. THE BLACK LEAD OF CABLE W1 MUST ALWAYS CONNECT TO NEGATIVE (-) SIDE OF BATTERY.
B. THE RED LEAD OF CABLE W1 MUST ALWAYS CONNECT TO POSITIVE (+) SIDE OF BATTERY.
5. INPUT LEVEL NOT TO EXCEED 1W AT 1000 CPS.
6. RESISTOR R5 IS USED ONLY IN 6VOLT MODEL.

Power Voice Speaker
TU433A-6V and TU433A-12V
Schematic Diagram
Motorola No. 63C845846-A
6/58-UM

PARTS LIST for Schematic Diagram 63C845846-A

Model: TU433A-6V Transistorized "Power-Voice" Speaker
 TU433A-12V Transistorized "Power-Voice" Speaker

REFERENCE SYMBOL	MOTOROLA PART No.	DESCRIPTION
LS1	50K850633	<u>SPEAKER, magnetic:</u> 3.2 ohm impedance; 15 watts max. 5"
P1	29K5405	<u>CONNECTOR, plug:</u> male; single contact; round molded black phenolic insulator; cable mounted same as P1
P2		
Q1	48K125267	<u>TRANSISTOR:</u> type MN23
Q2		same as Q1
R1	6R6254	<u>RESISTOR, fixed:</u> carbon; 330 ohm $\pm 10\%$; 1 w; ins.
R2	17K892226	wire-wound; 2.7 ohm $\pm 5\%$; 1/2 w; ins.
R3	17K890467	wire-wound; 0.33 ohm $\pm 10\%$; 1/2 w; ins.
R4		same as R3
R5	6R6336	270 ohm $\pm 10\%$; 1 w; ins.; used only in 6 volt model
T1	25C850555	<u>TRANSFORMER:</u> driver; consists of the following windings: primary: BLUE, BRN conductors; 3.2 ohm impedance
T2	25C850556	secondary; GRN, GRN with BLK center tap; 600 ohm total impedance output; consists of the following windings: primary: BLUE, BRN with RED center tap; 15 ohm total impedance secondary; GRN, BLK with YEL tap; YEL to BLK conductors; 3.2 ohm impedance GRN to BLK conductors; 9 ohm impedance
W1	1V854326	<u>CABLE ASSEMBLY:</u> special purpose; includes: 30C854323 CABLE, special purpose; 4 conductor; each conductor #20 ga. str.; rubber covered; coiled cord Reference parts P1, P2
XQ1	9B851503	<u>SOCKET, transistor:</u> female; 2 contact; triangular molded phenolic base; chassis mounted
XQ2		same as XQ1
NON-REFERENCED PARTS LIST		
	1V850581	<u>ADAPTER CABLE ASSEMBLY;</u> includes: 9K857509 CONNECTOR, receptacle: female; 2 contact 29K890406 CONNECTOR, plug: male; 2 contact; coded #6 10M435 WIRE, electrical: single conductor; stranded

REFERENCE SYMBOL	MOTOROLA PART No.	DESCRIPTION
NON-REFERENCED PARTS LIST (cont'd)		
	13D844376 32B844382 13K850572 15C847647	ins. coded GRN.; 4" length required BEZEL, speaker GASKET, speaker GRILLE, speaker HOUSING, speaker